

## MINIMUM REQUIREMENTS

All boilers and pressure vessels shall have a safety relief valve that is ASME/NB approved and rated for the appropriate service. The set pressure of the safety relief valve shall be equal to or below the maximum allowable working pressure (MAWP) of the vessel.

Pressure Vessels (includes air tanks, hot water storage tanks, deaerator, ironers, hydropneumatic tanks)(HBESS 12-224)

Clearance requirements--5' manways, 3' handholes and inspection openings, 18" vessel wall to nearest permanent structure.

For air service:

size--any vessel greater than 5 cubic feet or 37.4 gallons  
minimum gage range - 1.5 times the safety valve setting  
maximum gage range - 3 times the safety valve setting  
PVC plastic piping is prohibited

For hot water service:

size--any tank greater than 120 gallons  
1 thermometer and 1 pressure gage or a combination  
temperature/pressure gage  
minimum gage range - 1.5 times the MAWP  
maximum gage range - 3 times the MAWP

Heating Boilers (includes hot water heating, hot water supply, low pressure steam)(HBESS 12-223)

Clearance requirements--5' manways, 3' handholes and operating controls, 18" vessel wall to nearest permanent structure.

For hot water service:

gas fired - greater than 200,000 btu input  
oil fired - greater than .024 gpm or 1.43 gallons/hour  
electric - greater than 58.6 kw input

1 thermometer and 1 pressure gage or a combination  
temperature/pressure gage  
minimum gage range - 1.5 times the MAWP  
maximum gage range - 3 times the MAWP

For low pressure steam service (0-15 psi):

minimum gage range - 0-30 psi  
maximum gage range - 0-60 psi

\*Subject to same size, design, location, layout, piping system, etc. (10/97)